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REMP, Lt Col

XPCW

3201

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None

SPS Turnover Status Review

20 AUG 1979

1. At the completion of FOT&E testing, the SPS was determined to be unusable for system operation due to critical software anomalies. This Staff Summary Sheet seeks to reaffirm the command position relative to SPS turnover by reviewing the background and recent discussions with the SAMSO System Program Director (Col Barry). The intent of this review is to clarify and reaffirm the command philosophy as a prelude to additional discussions with Col Barry in an effort to derive a mutually workable and acceptable solution. If not resolved at this level, it is expected that the issue will be elevated to USAF for a directed resolution.

The background of the SPS and the SPO and ADCOM positions are summarized in the attached position paper.

3. The SPO restriction on equipment movement to the permanent site is the most severe limiting factor. If agreement can be reached to allow the move to proceed, the FOT&E and IOC schedule can be maintained.

4. In order to reach agreement, ADCOM may have to accept a lesser operational capability at turnover. Col Barry predicts that the Multiple Single Event (MSE) problem may take until January/February 1980 to fully resolve.

#### 5. RECOMMENDATIONS

a. ADCOM continue to seek SAMSO agreement on movement of the SPS to the permanent site prior to the start of FOT&E. Permanent site location should be a prerequisite for turnover and FOT&E.

b. ADCOM continue to hold for a workable system prior to accepting turnover.

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c. ADCOM identify the end of POT&C testing as the most supportable turnover date, at which time the software deficiency correction can be verified.

d. ADCOM be prepared to negotiate the final correction date for the MSE problem in return for earliest movement of the SPS to the permanent site.

ORIGINAL SIGNED

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1 Atch  
Position Paper on SPS  
Turnover

# POSITION PAPER

ON

## SPS TURNOVER

- At the time of IOT&E of the SPS at Vandenberg AFB, CA.
- Turnover date issue was unresolved between ADCOM and SAMSO.
- March 1979
- AF/RDS Msg 271530Z Mar 79.
- Specified ADCOM assumption of command support would start at end of IOT&E.
- Tasked ADCOM and AFSC to develop a Memorandum of Agreement (MOA) pertaining to SPS turnover at the completion of IOT&E.
- Identified USAF approval of the MOA required.
- May 1979
- On 23 May 1979 ADCOM and SAMSO signed the MOA.
- Subsequently forwarded to USAF for approval.
- June 1979
- During June 1979 IOT&E was conducted on the SPS.
- Serious operational deficiencies documented in the system software.
- Site personnel reported to AFTEC/SAMSO and ADCOM problems discovered during IOT&E.
- CINCAD Msg 221730Z Jun 79 to USAF/RDS (U)
- Reported SPS as not capable of supporting a DSP Operational role.
- Emphasized need for IOT&E to certify correction of mission essential deficiencies.
- Requested direction and funding to

--- Correct deficiencies

--- Conduct FOT&E

--- Change time of turnover to coincide  
with successful FOT&E

--- This remains the ADCOM position as stated to  
all external agencies.

--- June 1979

--- AFTEC Msg 272033Z Jun 79 (U)

--- Agreed with ADCOM conclusion that SPS not  
now capable of fulfilling its intended operational  
role.

--- Agreed further testing definitely needed  
after delivery of new software.

--- July 1979

--- AF/PDS Msg 031335Z Jul 79 answered the A/CV

--- MOA is approved.

--- Requested list of deficiencies required to  
be corrected.

--- Requested AFSC to cost and schedule deficiencies.

--- Provide a mutually agreeable schedule for  
FOT&E.

--- Held turnover of SPS in abeyance pending  
data provision.

--- Decision on TO to be made.

--- July 1979

--- ADCOM/XP Msg 232200Z Jul 79 (U)

--- Specified four category I deficiencies  
requiring fix action and FOT&E verification.

--- Turnover should not occur until identified critical deficiencies corrected.

--- Proposed schedule of events from Antenna erection to IOC.

- August 1979

----- SAMSO Msg 011415Z Aug 79 stated...

--- If planned improvements can be implemented on schedule and provide expected performance,

--- FOT&E could occur in Nov 79 as recommended by ADCOM.

--- Additional funding would not be required.

--- Also stated other issues and potential problems.

#### Present situation

--- On 6 August the ADCOM staff met with Col Barry for his ADCOM orientation. The turnover issue was a major part of the meeting. There is clearly a major difference of opinion between the stated ADCOM position and that of the SPO.

--- The SPO position is as follows: He is under strong pressure from his superiors to affect turnover. He expected to conclude a turnover agreement at the completion of IOT&E, as per the Memorandum of Agreement. He acknowledges his responsibility in the correction of the deficiencies identified during IOT&E regardless of turnover date. He expressed a concern over new deficiencies that may be defined because of a delayed turnover. His concern is that SAMSO will be held responsible for these new deficiencies. However, he is also opposed to any movement of the hardware prior to ADCOM acceptance of the system. This, in effect precludes movement to the permanent site prior to turnover. His reasoning is that movement of the equipment while belonging to the SPO places him in the position of being responsible for accidents and incidents caused by movement. He also expressed a concern about maintaining a constant baseline against which he could measure the correction of the identified deficiencies. In the end, he is firm for an early turnover regardless of the impact on FOT&E, movement of the equipment or IOC. ~~He has no issue with SAMSO erecting the 39' antenna at the permanent site scheduled to be accomplished during mid September.~~

--- The ADCOM position, as previously stated, is that turnover should be affected only after correction of the critical deficiencies and a verification of this by an FOT&E. However, ADCOM desires to move to the permanent site as quickly as possible (i.e., before turnover) to provide better security for the equipment, provide more experience in the permanent configuration prior to IOC, move before the winter season, and conduct the FOT&E using the 33' antenna. We believe that any other approach will delay the IOC of the GPS system.

--- If both the SPO and ADCOM stand firm, there exists an impasse which will require resolution, probably by USAF Staff direction. Much of the ADCOM schedule concern may be reduced if the SPO will allow the movement of the equipment to the operational site at an early date. In return, Col Barry will expect some concession in regard to ADCOM acceptance of turnover.

--- It is not certain what stand the Air Staff would take if this issue were elevated.

--- The addressees are asked to seriously consider the concept of turnover acceptance at the completion of FOT&E, if all critical deficiencies are corrected except the Multiple Single Event (MSE) problem. Col Barry has predicted that IBM may require additional time (possibly as late as Jan/Feb 1980) to fully correct this deficiency.

ACTION OFFICER: Lt Col Kemp/KPDW/3201      DATE: 17 August 1979

AUTHENTICATION:      ORIGINAL SIGNED      DATE: 20 AUG 1979

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